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FOREST PRODUCTS LABORATORY

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LIST OF PUBLICATIONS ON
GLUE, GLUED PRODUCTS, AND VENEER

December 1964

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FOREST PRODUCTS LABORATORY LIST OF PUBLICATIONS

ON

GLUE, GLUED PRODUCTS, AND VENEER¹

This list includes publications that present the results of research by the Forest Products Laboratory on the development of waterproof glues, preparation and application of various glues, plywood manufacturing problems, etc.

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¹
-This list was previously issued as Forest Products Laboratory Report
No. 513.

INSTRUCTIONS FOR OBTAINING PUBLICATIONS

Publications available for distribution at this Laboratory are marked with an asterisk (*).

Single technical notes, reprints, and processed reports may be obtained free upon request from the Director, Forest Products Laboratory, Madison, Wis. 53705.

Federal Government bulletins, circulars, and leaflets, if not available for free distribution at this Laboratory, may be purchased at the price indicated from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. Send money order, draft, or cash; stamps or personal checks are not accepted.

Trade journals containing articles herein listed may often be purchased from the publishers or may be consulted in various libraries.

The Forest Products Laboratory reserves the right to furnish only those publications which in its judgment will give the information requested. Blanket requests or requests for a large number of copies of any individual article will not be filled except in unusual cases.

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TYPES OF GLUES AND THEIR CHARACTERISTICS

Adhesives.	: Blomquist, R. F. :	Reprinted from Ency-
	:	: clopedia of Chem. Tech.
	:	: 2d ed. 1963, Vol. 1,
	:	: 371-405.
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*How to select a woodworking glue.	: Forest Products Laboratory :	FPL Tech. Note 256. Reissued 1962.
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*Epoxy-resin adhesives for gluing wood.	: Olson, W. Z. :	Forest Prod. Jour. 12 (2):74-80, Feb. 1962.
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*Progress in glues and gluing processes.	: Blomquist, R. F. :	Forest Prod. Jour. 12 (2):49-58, Feb. 1962.
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*An evaluation of 21 rubber-base adhesives for wood.	: Blomquist, R. F., & Olson, W. Z. :	Forest Prod. Jour. 10 (10):494-502, Oct. 1960.
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*An international look at glues and gluing.	: Blomquist, R. F. :	Forest Prod. Jour. 10 (2):62-70, Feb. 1960.
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*Synthetic resin glues for wood.	: Forest Products Laboratory :	FPL Tech. Note 258. Reissued 1958.
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*The ideal glue--how close are we?	: Brouse, D. :	Forest Prod. Jour. 7 (5):163-167, May 1957.
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Better glues.	: Blomquist, R. F. :	South. Lbrmn. 194(2418): 43-47, Jan. 1957.
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*Polyvinyl-resin emulsion wood-working glues.	: Olson, W. Z., & Blomquist, R. F. :	Forest Prod. Jour. 5 (4):219-226, Aug. 1955.
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*Copper salts improve casein glue.	: Forest Products Laboratory :	FPL Tech. Note 170. Reissued 1953.
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*Occurrence and removal of glue stains.	: Forest Products Laboratory :	FPL Tech. Note 146. Reissued 1953.

*Available for distribution from the Forest Products Laboratory.

+Information reviewed and reaffirmed.

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TYPES OF GLUES AND THEIR CHARACTERISTICS (continued)

*Overheating reduces strength of animal glue.	: Forest Products : Laboratory :	: FPL Tech. Note 104. : Reissued 1953. :
*Woodworking glues of natural origin.	: Forest Products : Laboratory :	: FPL Tech. Note 257. : 1953. +1960. :
*Commercial liquid glues.	: Forest Products : Laboratory :	: FPL Tech. Note F-2. : Revised 1952. :
*A factory method for testing hardness of glue joints.	: Forest Products : Laboratory :	: FPL Tech. Note 223. : Reissued 1952. :
*Vegetable (starch) glues.	: Forest Products : Laboratory :	: FPL Rpt. 30. : Revised 1950. +1960. :
*Synthetic resin glues.	: Forest Products : Laboratory :	: FPL Rpt. 1336. 1941. : +1959. :
*Casein glues: Their manufacture, preparation, and application	: Forest Products : Laboratory :	: FPL Rpt. 280. 1930. : +1961. :
*Animal glues: Their manufacture, testing, and preparation.	: Forest Products : Laboratory :	: FPL Rpt. 492. 1929. : +1960. :
*A water-resistant animal glue.	: Browne, F. L. :	: FPL Rpt. 40. 1929. : +1958.

GLUING OF WOOD

*Adhesives--past, present, and future.	: Blomquist, R. F. : :	: ASTM 1963. Edgar : Marburg Lecture. :
*Adhesives for structural laminated lumber.	: Selbo, M. L. : :	: Adhesives Age 4(2): : 22-25, Feb. 1961. :
*Chemical treatment of surfaces improves joints with certain woods and glues.	: Forest Products : Laboratory :	: FPL Tech. Note 232. : Revised 1961. :

*Available for distribution from the Forest Products Laboratory.

+Information reviewed and reaffirmed.

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<u>GLUING OF WOOD</u> (continued)		
*Effect of solvent on gluing of preservative-treated red oak, Douglas-fir, and southern pine.	: Selbo, M. L.	: Amer. Wood-Preservers' Assn. 1961.
*Progress in 1960...glues and gluing processes.	: Blomquist, R. F.	: Forest Prod. Jour. 11 (2):77-85, Feb. 1961.
The future of adhesives in the wood industry.	: Blomquist, R. E., & Fleischer, H. O.	: Forest Prod. Jour. 10 (12):626-630, Dec. 1960.
*Adhesives, their use and performance in structural lumber products.	: Selbo, M. L.	: FPL Rpt. 2199. 1960.
*The gluing of treated lumber.	: Selbo, M. L.	: Amer. Wood-Preservers' Assn. Proc. 1960.
*Proceedings of the symposium on adhesives for the wood industry held at U.S. Forest Products Laboratory, Madison, Wis. Jan. 13-15, 1960.	: Locke, E. G.	: FPL Rpt. 2183. 1960.
*Starved glue joints.	: Forest Products Laboratory	: FPL Tech. Note 193. 1960.
*Strength tests of spliced studs.	: Erickson, E. C. O.	: FPL Rpt. 1275. Revised 1959.
*Summary of information on gluing of treated wood.	: Selbo, M. L.	: FPL Rpt. 1789. Revised 1959. +1960.
*Tooth-planing not necessary to produce strong glued wood joints.	: Forest Products Laboratory	: FPL Tech. Note 227. Revised 1957.

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*Glued structural members.	: Forest Products Laboratory	: Separate from Wd. Hdbk. U.S.D.A. Agr. Hdbk. No. 72. 1955.
*Gluing characteristics of chinquapin, tanoak, California laurel, madrone.	: Olson, W. Z.	: FPL Rpt. 2030. 1955. +1960.
*Gluing of wood.	: Forest Products Laboratory	: Separate from Wd. Hdbk. U.S.D.A. Agr. Hdbk. No. 72. 1955.
Gluing techniques for beech.	: Olson, W. Z., & Blomquist, R. F.	: Beech Util. Series No. 5. Northeastern For. Expt. Sta. 1953.
*Glues for wood in archery uses.	: Forest Products Laboratory	: FPL Tech. Note 226. Revised 1952.
*Hand-operated portable glue spreader.	: Forest Products Laboratory	: FPL Tech. Note 255. 1952.
*Development of strength in yellow birch lap joints glued with six resorcinol-resin glues at temperatures from 40° to 80° F.	: Olson, W. Z., & Blomquist, R. F.	: FPL Rpt. 1565. 1947. +1962.
*Gluing of plywood to concealed framing members with high-frequency stray field heating.	: Bell, E. R., & Dunlap, M. E.	: FPL Rpt. 1694. 1947. +1960.
*Curing of resorcinol-resin glues at temperatures from 40° to 80° F.	: Olson, W. Z., Bruce, H. D., & Soper, V.	: FPL Rpt. 1629. 1946. +1958.
*Glues and gluing in prefabricated house construction.	: Arneson, G. N.	: Miss. Valley Lbrmn. May 10, 17, 1946. Cosgrove's Mag., May-June 1946.

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+Information reviewed and reaffirmed.

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<u>GLUING OF WOOD (continued)</u>		
*Rate of development of joint strength by four resin glues on eight species of wood.	: Olson, W. Z., : Bruce, H. D., & : Soper, V.	: FPL Rpt. 1547. 1946. : +1962.
*Strength of joints in hard maple blocks, glued with certain resin glues, after various open and closed assembly periods.	: : Bruce, H. D., & : Olson, W. Z.	: : FPL Rpt. 1542. 1946. : +1960.
*Variation in maximum allowable assembly time with age in the pot at time of spreading for four resin glues.	: : Olson, W. Z., & : Bruce, H. D.	: : FPL Rpt. 1546. 1946. : +1962.
*Experiments on the gluing of wood treated with oil solutions of chlorophenols.	: : Kaufert, F.H., & : Hutchins, W. F.	: : FPL Rpt. 1484. 1945. : +1961.
*Bleed-through of glue in aircraft plywood.	: : Forest Products : Laboratory	: : FPL Rpt. 1541. 1944. : +1960.
*Development of joint strength in birch plywood glued with phenol-, resorcinol-, and melamine-resin glues cured at several temperatures.	: : Forest Products : Laboratory	: : FPL Rpt. 1531. 1944. : +1960.
*Preliminary experiments to improve the gluing characteristics of refractory plywood surfaces by sanding.	: : Kaufert, F. H.	: : FPL Rpt. 1351. 1943. : +1962.
*The effect of fire-retardant chemicals on glues used in plywood manufacture.	: : Forest Products : Laboratory	: : FPL Rpt. 1427. 1942. : +1958.

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*The gluing characteristics of 15 species of wood with cold-setting urea-resin glues.	:	Forest Products Laboratory	:	FPL Rpt. 1342. Revised 1942. +1962.
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*Rate of setting of cold-setting urea-resin glue joints.	:	Black, J. M.	:	FPL Rpt. 1422. 1942. +1959.
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*Control of conditions in gluing with protein and starch glues.	:	Forest Products Laboratory	:	U.S. Forest Service Research Note FPL-050. Revised 1950. +1964.
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Gluing wood in aircraft manufacture.	:	Truax, T. R.	:	U.S.D.A. Tech. Bul. 205. 1930. 25 cents.
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The gluing of wood.	:	Truax, T. R.	:	U.S.D.A. Bul. 1500. 1929.
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*Important factors in gluing with animal glue.	:	Forest Products Laboratory	:	FPL Rpt. 869. 1929. +1961.

GLUING OF MATERIALS OTHER THAN WOOD

(Metals, Plastics, etc.)

*Determination of mechanical properties of adhesives for use in the design of bonded joints.	:	Kuenzi, E. W., & Stevens, G. H.	:	U.S. Forest Service Research Note FPL-011. 1963.
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*Importance of balanced construction in plastic-faced wood panels.	:	Heebink, B. G.	:	U.S. Forest Service Research Note FPL-021. 1963.
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*Effect of heat and humidity on the properties of high-pressure laminates.	:	Heebink, B.G., & Haskell, H. H.	:	Forest Prod. Jour. 12 (11):542-548, Nov. 1962.
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*Polymer structure and the thermal deterioration of adhesives in metal joints. Pts. 1 and 2.	:	Black, J. M., & Blomquist, R. F.	:	Adhesives Age 5(2): 30-36, Feb. 1962. 5(3): 34-38, Mar. 1962.

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Paper overlays on low-grade lumber.	: Heebink, B. G.	: The Northeastern Logger : 10(4):14-15, 34-36, 43, : Oct. 1961.
How to balance plastic-faced wood panels.	: Heebink, B. G.	: Wood and Wood Prod. 66 : (6):38, 40, June 1961.
*Paper overlaid lumber.	: Heebink, B. G.	: Forest Prod. Jour. 11 : (4):167-175, Apr. 1961.
*Development of adhesives with improved heat resistance in bonds of stainless steel.	: Black, J. M., & : Blomquist, R. F.	: FPL Rpt. 1883. 1961.
*Statistical variations of the lap-joint strength of metal-bonding adhesives at elevated temperatures.	: Eickner, H. W., & : Olson, W. Z.	: FPL Rpt. 1880. 1961.
*Bonding wood veneer flooring to concrete subfloors.	: Eickner, H. W.	: Veneers and Plywood 53 : (9):18-19, 21, 24, Sept. : 1959.
*Adhesive deterioration in metal bonds at high temperatures.	: Blomquist, R. F., : & Black, J. M.	: Adhesives Age 2(5):34- : 39, May 1959. 2(6):27- : 38, June 1959.
*Metal surface effects on heat resistance of adhesive bonds.	: Black, J. M., & : Blomquist, R. F.	: Indus. & Eng. Chem. : 50(6):918-921, June 1958.
*Effect of surface treatment on the adhesive bonding properties of magnesium.	: Eickner, H. W.	: FPL Rpt. 1865. 1958.

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+Information reviewed and reaffirmed.

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Weathering of adhesive-bonded lap joints of clad aluminum alloy.	: Eickner, H. W.	: WADC Tech. Rpt. 54-477. Pt. I. Feb. 1955.
	:	: Pt. II. (ASTIA Document AD-130879). July 1957.
	:	: Available from Research & Technical Div., ML (MAAE), Wright-Patterson Air Force Base, Ohio.
*Climbing peel test for strength of adhesive bonds.	: Werren, F., & Eickner, H. W.	: Modern Plastics, Dec. 1956.
Tensile strength of adhesive bonds in sandwich with aluminum facings and aluminum honeycomb cores.	: Setterholm, V. C., Eickner, H. W., & Kuenzi, E. W.	: WADC Tech. Rpt. 56-386. (ASTIA Document AD-11049). Oct. 1956.
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Development and evaluation of the climbing peel method for testing adhesive bonds in sandwich and metal-to-metal constructions.	: Eickner, H. W., & Werren, F.	: WADC Tech. Rpt. 56-239 (ASTIA Document AD-97294). Sept. 1956.
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*Metal-bonding adhesives for high-temperature service.	: Black, J. M., & Blomquist, R. F.	: Modern Plastics 33(10): 250, June 1956.
High strength adhesives for metal bonding.	: Blomquist, R. F.	: Machine Design 28(11): 99-103, May 31, 1956.

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GLUING OF MATERIALS OTHER THAN WOOD (continued)

(Metals, Plastics, etc.)

*Adhesive bonding properties of various metals as affected by chemical and anodizing treatments: of the surfaces (Pt. A--Additional tests on anodized aluminum and on zinc-chromate primed magnesium).	: Eickner, H. W.	: FPL Rpt. 1842-A. 1955. +1960.
*Basic shear strength properties of metal-bonding adhesive as determined by lap-joint stress formulas of Volkersen and Goland and Reissner.	: Eickner, H. W.	: FPL Rpt. 1850. 1955. +1960.
*Durability of low-density sandwich panels of the aircraft type as determined by laboratory tests and exposure to weather.	: Setterholm, V. C., : Heebink, B. G., & : Kuenzi, E. W.	: FPL Rpt. 1573-C. 1955. : +1960.
*Metal-bonding adhesives with improved heat resistance.	: Black, J. M., & : Blomquist, R. F.	: Modern Plastics, : Dec. 1954.
Comparisons of test methods for evaluating adhesives for bonding metal facings to metal honeycomb cores.	: Eickner, H. W., & : Werren, F.	: WADC Tech. Rpt. 54- : 138. July 1954. Avail- : able from Research & : Technical Div., ML : (MAAE), Wright-Patterson : Air Force Base, Ohio.
*Development of improved structural epoxy-resin adhesives and bonding processes for metal.	: Black, J. M., & : Blomquist, R. F.	: FPL Rpt. 2008. 1954. : +1959.
*Adhesive bonding properties of various metals as affected by chemical and anodizing treatments: of the surfaces (addendum added).	: Eickner, H. W.	: FPL Rpt. 1842. 1953. : +1960.

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GLUING OF MATERIALS OTHER THAN WOOD (continued)

(Metals, Plastics, etc.)

*The shear, fatigue, bend, impact, and long-time load strength properties of structural metal-to-metal adhesives in bonds to 24S-T3 aluminum alloy.	: Eickner, H. W.	: FPL Rpt. 1836. 1953.
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Effect of temperatures from -70° to 600° F. on strength of adhesive-bonded lap shear specimens of clad 24S-T3 aluminum alloy and of cotton- and glass-fabric plastic laminates.	: Eickner, H. W., : Olson, W. Z., & : Blomquist, R. F.	: National Advisory Comm. : for Aeronautics Tech. : Note 2717. June 1952.
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Evaluation of several adhesives and processes for bonding sandwich constructions of aluminum facings on paper honeycomb core.	: Eickner, H. W.	: National Advisory Comm. : for Aeronautics Tech. : Note 2106. May 1950.
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*A study of methods for preparing clad 24S-T3 aluminum-alloy sheet surfaces for adhesive bonding.	: Eickner, H.W., & : Schowalter, W.E.	: FPL Rpt. 1813. 1950. : +1962.
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*A study of methods for preparing clad 24S-T3 aluminum-alloy sheet surfaces for adhesive bonding:	: Eickner, H. W.	: FPL Rpt. 1813-A. 1950. : +1962.
Pt. 3--Effect of cleaning method on resistance of bonded joints to saltwater spray.	:	:
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Gluing tests with room-temperature-setting adhesives to fabric-base plastic laminates.	: Eickner, H. W.	: Air Force Tech. Rpt. : 5928. Aug. 1949.
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*Strength of aluminum lap joints at elevated temperatures. (Tests conducted immediately after the temperature was reached.)	: Kuenzi, E. W.	: FPL Rpt. 1808. 1949. : +1962.
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*Durability of glued wood to metal joints.	: Eickner, H. W.	: FPL Rpt. 1570. 1947.
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*The gluing of laminated paper plastic (papreg).	: Eickner, H. W.	: FPL Rpt. 1348. 1946.
	:	: +1960.
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*Gluing of thin compreg.	: Eickner, H. W., &	: FPL Rpt. 1346. 1946.
	: Bruce, H. D.	: +1962.
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*Resistance to fatigue stressing of wood-to-metal joints glued with several types of adhesives.	: Eickner, H. W.	: FPL Rpt. 1545. 1946.
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*Tensile strength at elevated temperature of glued joints between aluminum and end-grain balsa.	: Eickner, H. W.	: FPL Rpt. 1548. 1946.
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DURABILITY OF GLUES

*Heating veneer bolts to improve quality of Douglas-fir plywood.	: Lutz, J. F.	: FPL Rpt. 2182. 1960.
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*Adhesive deterioration in metal bonds at high temperatures.	: Blomquist, R. F.	: Adhesives Age 2(5):
	: & Black, J. M.	: 34-39, May 1959. 2(6):
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*Effect of repeated loading and salt-water immersion on flexural properties of laminated white oak.	: Freas, A. D., &	: Forest Prod. Jour. 9(2):
	: Werren, F.	: 100-103, Feb. 1959.
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*Glue joints durable--12-year tests in preservative-treated laminated timbers reported.	: Selbo, M. L.	: South. Lbrmn. 197(2465):
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*Durability of urea-resin glues at elevated temperatures.	: Blomquist, R. F.,	: Forest Prod. Jour. 7(8):
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<u>DURABILITY OF GLUES</u> (continued)		
*Effect of moisture on bacterial weakening of casein-bonded plywood.	: Duncan, C. G.	: FPL Rpt. 2077. 1957.
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*Durability of fortified urea-resin glues in plywood joints.	: Blomquist, R. F.,	: Forest Prod. Jour. 5(1):
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Evaluation of glues and glued products.	: Blomquist, R. F.	: Preprint Forest Prod.
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*Durability of woodworking glues in different types of assembly joints.	: Selbo, M. L., &	: Forest Prod. Jour. 3(5):
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Durability of glue joints in preservative treated wood.	: Selbo, M. L.	: South. Lbrmn. 185(2321):
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*Current investigations of the durability of woodworking adhesives.	: Blomquist, R. F.	: ASTM symposium on
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	:	: ability and permanence.
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The durability of birch plywood treated with wood preservatives and fire-retarding chemicals.	: Blew, J. O., &	: Amer. Wood-
	: Olson, W. Z.	: Preservers' Assn.
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*Durability of papreg-to-papreg and papreg-to-birch glue joints.	: Eickner, H. W.	: FPL Rpt. 1538.
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*Durability of woodworking glues for dwellings.	: Selbo, M. L.	: Forest Prod. Res. Soc.
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*Effect of alkalinity of phenol- and resorcinol-resin glues on durability of joints in plywood.	: Blomquist, R. F.	: FPL Rpt. 1748. 1949.
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Tests on the durability of wood-working glues.	Wangaard, F. F.	South. Lbrmn. 174(2184): 63-64, 66, 68, 70, 74, Apr. 1, 1947.
*Results of accelerated tests and long-term exposures on glue joints in laminated beams.	Truax, T. R., & Selbo, M. L.	FPL Rpt. 1729. 1947. +1962.
*Durability of water-resistant woodworking glues.	Wangaard, F. F.	FPL Rpt. 1530. 1946. +1962.
*Effect of thickness of glue line on strength and durability of glued wood joints.	Cockrell, R. A., & Bruce, H. D.	FPL Rpt. 1616. 1946. +1960.
*Durability of glue joints between blocks of compreg and of compreg and wood.	Eickner, H. W.	FPL Rpt. 1536. 1945. +1960.
*Resistance of several types of glue in wood joints to fatigue stressing.	Olson, W. Z., Bensend, D. W., & Bruce, H. D.	FPL Rpt. 1539. 1945. +1960.
*Effects of elevated curing temperatures on the strength and durability of yellow birch plywood joints made with room-temperature-setting urea glues.	Black, J. M., Olson, W. Z., & Bruce, H. D.	FPL Rpt. 1339. 1945. +1961.
*Effect of high and low temperatures on resin glue joints in birch plywood.	Blomquist, R. F.	FPL Rpt. 1345. Revised 1944. +1962.
*Increasing the durability of casein glue joints with preservatives.	Kaufert, F. H.	FPL Rpt. 1332. 1943. +1961.
*Procedures for measuring the mold resistance of protein glues.	Kaufert, F. H.	FPL Rpt. 1344. 1943. +1960.

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PLYWOOD AND VENEERED PANELS

*The bending strength and stiffness of plywood.	: Freas, A. D.	: U.S. Forest Service
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*Experiments in gluing southern pine veneer.	: Blomquist, R.F.,	: U.S. Forest Service
	: & Olson, W. Z.	: Research Note FPL-032.
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*Manufacture and general characteristics of flat plywood.	: Forest Products	: U.S. Forest Service
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*Technical considerations for manufacturing southern pine plywood.	: Fleischer, H. O.,	: Forest Prod. Jour. 13
	: & Lutz, J. F.	: (1):39-42, Jan. 1963.
*Portable apparatus for surface evaluation of furniture panels.	: Heebink, B. G.	: U.S. Forest Service
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PUBLICATION LISTS ISSUED BY THE
FOREST PRODUCTS LABORATORY

The following lists of publications deal with investigative projects of the Forest Products Laboratory or relate to special interest groups and are available upon request:

Box, Crate, and Packaging Data	Logging, Milling, and Utilization of Timber Products
Chemistry of Wood	Mechanical Properties of Timber
Drying of Wood	Pulp and Paper
Fire Protection	Structural Sandwich, Plastic Laminates, and Wood-Base Components
Fungus and Insect Defects in Forest Products	Thermal Properties of Wood
Glue and Plywood	Wood Finishing Subjects
Growth, Structure, and Identification of Wood	Wood Preservation
Furniture Manufacturers, Woodworkers, and Teachers of Woodshop Practice	Architects, Builders, Engineers, and Retail Lumbermen

Note: Since Forest Products Laboratory publications are so varied in subject matter, no single catalog of titles is issued. Instead, a listing is made for each area of Laboratory research. Twice a year, December 31 and June 30, a list is compiled showing new reports for the previous 6 months. This is the only item sent regularly to the Laboratory's mailing roster, and it serves to keep current the various subject matter listings. Names may be added to the mailing roster upon request.

